

# Jiazhen Wu

## List of Publications by Year in descending order

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27  
papers

1,258  
citations

623734

14  
h-index

552781

26  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1650  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unique Catalytic Mechanism for Ru-Loaded Ternary Intermetallic Electrides for Ammonia Synthesis. Journal of the American Chemical Society, 2022, 144, 8683-8692.	13.7	38
2	Anomalous diamagnetism of electride electrons in transition metal silicides. Physical Review B, 2021, 103, .	3.2	4
3	Dissociative and Associative Concerted Mechanism for Ammonia Synthesis over Co-Based Catalyst. Journal of the American Chemical Society, 2021, 143, 12857-12866.	13.7	50
4	Facile Synthesis of $Ti_2AC$ (A = Zn, Al, In, and Ga) MAX Phases by Hydrogen Incorporation into Crystallographic Voids. Journal of Physical Chemistry Letters, 2021, 12, 11245-11251.	4.6	6
5	Computational Prediction of Boron-Based MAX Phases and MXene Derivatives. Chemistry of Materials, 2020, 32, 6947-6957.	6.7	89
6	Pressure-Induced Topological and Structural Phase Transitions in an Antiferromagnetic Topological Insulator*. Chinese Physics Letters, 2020, 37, 066401.	3.3	50
7	Toward 2D Magnets in the $(MnBi_2Te_4)(Bi_2Te_3)_n$ Bulk Crystal. Advanced Materials, 2020, 32, e2001815.	21.0	45
8	Site occupancy preference, electrical transport property and thermoelectric performance of $Ba_8Cu_6xGe_{40+x}$ single crystals grown by using different metal fluxes. Materials Advances, 2020, 1, 2953-2963.	5.4	1
9	Crystal Structure Built from a $GeO_6$ "GeO <sub>5</sub> Polyhedra Network with High Thermal Stability: $SrGe_2O_5$ ". ACS Applied Electronic Materials, 2019, 1, 1989-1993.	4.3	5
10	Discovery of hexagonal ternary phase $Ti_2InB_2$ and its evolution to layered boride $TiB$ . Nature Communications, 2019, 10, 2284.	12.8	159
11	Acid-durable electride with layered ruthenium for ammonia synthesis: boosting the activity via selective etching. Chemical Science, 2019, 10, 5712-5718.	7.4	42
12	Pseudogap Control of Physical and Chemical Properties in CeFeSi-Type Intermetallics. Inorganic Chemistry, 2019, 58, 2848-2855.	4.0	4
13	Natural van der Waals heterostructural single crystals with both magnetic and topological properties. Science Advances, 2019, 5, eaax9989.	10.3	193
14	Intermetallic Electride Catalyst as a Platform for Ammonia Synthesis. Angewandte Chemie - International Edition, 2019, 58, 825-829.	13.8	104
15	Ternary intermetallic $LaCoSi$ as a catalyst for $N_2$ activation. Nature Catalysis, 2018, 1, 178-185.	34.4	221
16	Intermetallic Electride Catalyst as a Platform for Ammonia Synthesis. Angewandte Chemie, 2018, 131, 835.	2.0	70
17	Realization of Mott-insulating electrides in dimorphic $Yb_5S_3$ and $Yb_3S_2$ . Physical Chemistry Letters, 2018, 9, 1211-1215.	3.2	30
18	Interlayer states arising from anionic electrons in the honeycomb-lattice-based compounds $AeAlSi$ ( $A = Ca, Sr, Ba$ ). Physical Chemistry Letters, 2018, 9, 1211-1215.	3.2	30

#	ARTICLE	IF	CITATIONS
19	Tiered Electron Anions in Multiple Voids of LaScSi and Their Applications to Ammonia Synthesis. <i>Advanced Materials</i> , 2017, 29, 1700924.	21.0	85
20	Single Crystal Structure Study of Type I Clathrate $\text{K}_8\text{Zn}_4\text{Sn}_{42}$ and $\text{K}_8\text{In}_8\text{Sn}_{38}$ . <i>Journal of Electronic Materials</i> , 2017, 46, 2765-2769.	2.2	3
21	Unification of the low-energy excitation peaks in the heat capacity that appears in clathrates. <i>Physical Review B</i> , 2016, 93, .	3.2	7
22	Gap Structure of the Overdoped Iron-Pnictide Superconductor $\text{Ba}(\text{Fe}_{0.942}\text{Ni}_{0.058})_2\text{As}_2$ : A Low-Temperature Specific-Heat Study. <i>Advances in Condensed Matter Physics</i> , 2015, 2015, 1-5.	1.1	0
23	Structure and thermoelectric properties of the n-type clathrate $\text{Ba}_8\text{Cu}_{5.1}\text{Ge}_{40.2}\text{Sn}_{0.7}$ . <i>Journal of Materials Chemistry A</i> , 2015, 3, 19100-19106.	10.3	17
24	Systematic studies on anharmonicity of rattling phonons in type-I clathrates by low-temperature heat capacity measurements. <i>Physical Review B</i> , 2014, 89, .	3.2	8
25	Low-Temperature Physical and Thermoelectric Properties of $\text{Ba}_8\text{Ni}_5\text{Ge}_{41}$ . <i>Journal of Electronic Materials</i> , 2013, 42, 2025-2029.	2.2	1
26	Heat capacity studies on rattling vibrations in $\text{Ba}^{\text{TM}}\text{Ge}$ type I clathrates. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 1521-1523.	4.0	8
27	Low-Temperature Physical Properties of $\text{Ba}_8\text{Ni}_x\text{Ge}_{46-x}$ ( $x=3, 4, 6$ ). <i>Journal of Electronic Materials</i> , 2012, 41, 1177-1180.	2.2	10